

## ABSTRACT

The present invention provides a medical device, preferably a contact lens, which comprises an antimicrobial LbL coating containing one or more antimicrobial peptides. The antimicrobial coating of the invention can impart to the medical an increased surface hydrophilicity and a relatively high antimicrobial activity coupled with low cytotoxicity. The antimicrobial coating of the invention has a minimal adverse effects on the desirable bulk properties of a contact lens, such as oxygen permeability, ion permeability, and optical properties. An antimicrobial coating of the present invention may find particular use in extended-wear contact lenses. In addition, the invention provides a method for making a medical device, preferably a contact lens, having an antimicrobial LbL coating thereon.